

What is Claimed is:

1. A miniature vibration motor structure, comprising:

3 a housing, including an upper plate and a lower plate each having
4 a seat hole for receiving each of two ends of a shaft column in a non-tight fit
5 manner;

6 a rotor, including a bearing, and an annular permanent magnet
7 integrally formed on an outer periphery of the bearing, the bearing having a
8 center defining a shaft hole for passage of the shaft column, a center of gravity
9 and a center of rotation of the rotor are not in concert with each other;

10 a stator seat, wound with a coil, and having a power inlet for
11 supplying an electric power into the stator seat, the stator seat having poles
12 which may be induced with the permanent magnet of the rotor.

13 2. The miniature vibration motor structure as claimed in claim 1,
14 wherein the upper plate of the housing is a circuit board.

15 3. The miniature vibration motor structure as claimed in claim 1,
16 wherein the lower plate of the housing is a circuit board.

17 4. The miniature vibration motor structure as claimed in claim 1,
18 wherein the bearing or the annular permanent magnet of the rotor is provided
19 with a recess, a protruding block, or an insert having different material and
20 specific gravity is embedded in the recess.

21 5. A miniature vibration motor structure, comprising:

22 a fixing plate, having a shaft connecting hole, and a plurality of
23 positioning holes, the shaft connecting hole of the fixing plate allowing non-
24 tight combination of one end of the shaft column, a housing provided with a
25 plurality of locking blocks locked in the positioning holes of the fixing plate,
26 the housing having a shaft connecting hole allowing non-tight combination of
27 the other end of the shaft column;

1 a rotor, including a bearing, and an annular permanent magnet
2 integrally formed on an outer periphery of the bearing, the bearing having a
3 center defining a shaft hole for passage of the shaft column, a center of gravity
4 and a center of rotation of the rotor are not in concert with each other;

5 (a stator seat, wound with a coil, and having a power inlet for
6 supplying an electric power into the stator seat, the stator seat having poles
7 which may be induced with the permanent magnet of the rotor.

8 6. The miniature vibration motor structure as claimed in claim 5,
9 wherein the bearing or the annular permanent magnet of the rotor is provided
10 with a recess, a protruding block, or an insert having different material and
11 specific gravity is embedded in the recess.

12 7. The miniature vibration motor structure as claimed in claim 5,
13 wherein the fixing plate may be a circuit board.